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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/743,304	12/23/2003	Jong-Boo Kim	1349.1362	5577
21171	7590 12/15/2006	•	EXAMINER	
STAAS & HALSEY LLP SUITE 700			PARRIES	, DRU M
1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2836	

DATE MAILED: 12/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/743,304	KIM, JONG-BOO			
		Examiner	Art Unit			
		Dru M. Parries	2836			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Respo	1) Responsive to communication(s) filed on 23 December 2003.					
2a) This a	ction is FINAL . 2b)⊠ T	his action is non-final.				
3) Since	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
10)⊠ The dra Applica Replac	ecification is objected to by the Examery awing(s) filed on 23 December 2003 is not may not request that any objection to the ement drawing sheet(s) including the control of the control	s/are: a)⊠ accepted or b)□ objecto the drawing(s) be held in abeyance. See rection is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 3	5 U.S.C. & 119					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	erences Cited (PTO-892)	4) Interview Summary				
3) Information Di	tsperson's Patent Drawing Review (PTO-948) isclosure Statement(s) (PTO/SB/08) fail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior Art (Admission) and Kim et al. (6,648,669). Admission teaches a portable electronic device having first and second contact protrusions for receiving an external power supply and a plurality of auxiliary contact protrusions for receiving a power status (data). Admission also teaches a battery device having first and second contact terminals and a plurality of auxiliary contact terminals for connecting to the contact protrusions to provide the body with the power supply and power status. Admission also teaches a pivot axis. (Fig. 2) Admission fails to teach the difference in the length and width of the contact terminals. Kim teaches a battery (100) connected to an electrical device (104) via connectors (10, 20). Kim teaches the connectors using a primary/pilot mating system. He teaches the connectors having terminals and teaches the data terminals (114) being shorter, in length and width, than the voltage terminals (112) (Fig. 1A & B). This is done to control an order of communication with respective contact protrusions during battery removal and insertion (i.e. the power terminals will mate first and unmate last). He also teaches the idea of the positive and negative voltage terminals being of different length and width, as well. (Col. 3, line 33 through Col. 4, line 7) It would have been obvious to one of ordinary skill in the art at the time of the invention to use these methods of terminal lengths and

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widths to control the order of communication with respective contact protrusions during battery insertion and removal for preventing high voltage arcing that can damage the terminals and housings (taught in Kim, Col. 3, lines 50-57).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dru M. Parries whose telephone number is (571) 272-8542. The examiner can normally be reached on Monday -Thursday from 9:00am to 6:00pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus, can be reached on 571-272-2800 x 36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DMP

11-30-2006

CHAUN. NGUYEN
DRIMARY EXAMINER